

PB

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,765

DATE: 09/24/2001  
TIME: 16:15:25

Input Set : A:\20351p.txt

Output Set: N:\CRF3\09242001\I831765.raw

4 <110> APPLICANT: Liu, Qingyun  
 5 McDonald, Terrence P.  
 7 <120> TITLE OF INVENTION: DNA MOLECULES ENCODING HG51, A  
 8 G PROTEIN-COUPLED RECEPTOR  
 11 <130> FILE REFERENCE: 20351P  
 13 <140> CURRENT APPLICATION NUMBER: 09/831,765  
 C--> 14 <141> CURRENT FILING DATE: 2001-08-24 8Y  
 16 <150> PRIOR APPLICATION NUMBER: PCT/US99/27305  
 17 <151> PRIOR FILING DATE: 1999-11-18  
 19 <150> PRIOR APPLICATION NUMBER: 60/109,717  
 20 <151> PRIOR FILING DATE: 1998-11-24  
 22 <160> NUMBER OF SEQ ID NOS: 15  
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 1537  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Homo sapien (human)  
 31 <400> SEQUENCE: 1  
 32 ggggccacgg ggggtgcgcc ggcgcgcggt agcgcgggcc cctcagtgc caatggccag  
 33 agcaggcgcc ggagccccag ccccacccag tgcggagcgc gccgcgagcc cgcgcgcaag 60  
 34 ctgagcgctt ccgcggccca ggcgcgcgg cgccggggcca tttactcggg gaaccgcac 120  
 35 ggcggccacg gctactggga cggcggcgccc gccgcgggcg ctgaggggcg ggcgcggcg 180  
 36 gggacactga gccccgcgc cctcttcagc cccggcacct aegagcgcct ggcgctgtg 240  
 37 ctgggctcca ttgggctgtt gggcgtcgcc aacaacctgc ttgtgtctgt cctctactac 300  
 38 aagtccagc ggctccgcac tccactcactc ctcctcttg tcaacatcatcg ctcagcgcac 360  
 39 ctgctgtgtt ccctcttcgg ggtcacctt accttcgtgtt ctcgtcttagt gacggctgg 420  
 40 gtgtgggaca ccgtggctg cgtgtggac ggttttagcg gacgcctttt cgggattgtt 480  
 41 tccattgcca ccctaaccgt gtcggcttat gaaacctaca ttgcgttgtt ccatgcaga 540  
 42 gtgtcaatt ttccctgggc ctggagggcc attacccata tctggctcta ctcactggcg 600  
 43 tggcaggag cacctctctt gggatggaaac aggtacatcc tgacgtaca cggactaggc 660  
 44 tgcactgtgg actggaaatc caaggatgca aacgatccct cttttgtgtt ttttttattt 720  
 45 ctggctgcc ttgggtgtt cctgggtgtc atagccattt gctatggcca tatttttat 780  
 46 tccattcgaa tgcttcgtt tggtggaaatg cttcagacaa ttcaagtgtt caagattttt 840  
 47 aaatatgaaa agaaactggc caaaatgtgc ttttaatgtt tattcacctt cttggctgtt 900  
 48 tggatgcctt atatcgat ctgcttcgtt gtggtaatg gtcatggtca cttggtaact 960  
 49 ccaacaatat ctattgtttc gtacctcttt gctaaatcgaa acactgtata caatccatgt 1020  
 50 atttatgtct tcattgtatcgaa agatccctt tgcagttctt gtgcctccga 1080  
 51 ctgctgaggt gccagaggcc tgctaaagac ctaccagcag ctggaaatgtt aatgcagatc 1140  
 52 agaccattt tgatgtcaca gaaagatggg gacaggccaa agaaaaaaatg gactttcaac 1200  
 53 tcttcttcca tcattttat catcaccagt gatgaatcac tgcgttgta cgacagcgac 1260  
 54 aaaaccaatg ggtccaaatg tgatgtatcgaa agatccctt tgcagttctt gtgcctccga 1320  
 55 gcaacgaaatg atggggccctt aaattggatg ccacttttgg actttcatca taagaatgtt 1380  
 56 ctggaaatacc ctgttctatgtt aatatcaaca gaaaccttggt gtcacgttccagg aaatccgaaat 1440  
 57 tgcccatatg ctcttggcc tcaggaagag gttgaac 1500  
 59 <210> SEQ ID NO: 2  
 60 <211> LENGTH: 402  
 61 <212> TYPE: PRT

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62 <213> ORGANISM: Homo sapien (human)  
 64 <400> SEQUENCE: 2  
 65 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
     1                 5                 10                 15  
 66 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
     20                 25                 30  
 67 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
     35                 40                 45  
 68 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
     50                 55                 60  
 69 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
     65                 70                 75                 80  
 70 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
     85                 90                 95  
 71 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
     100                 105                 110  
 72 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
     115                 120                 125  
 73 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
     130                 135                 140  
 74 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
     145                 150                 155                 160  
 75 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp  
     165                 170                 175  
 76 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
     180                 185                 190  
 77 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
     195                 200                 205  
 78 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
     210                 215                 220                 225  
 79 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
     230                 235                 240  
 80 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
     245                 250                 255  
 81 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
     260                 265                 270  
 82 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
     275                 280                 285  
 83 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
     290                 295                 300  
 84 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
     305                 310                 315                 320  
 85 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
     325                 330                 335  
 86 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
     340                 345                 350  
 87 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
     355                 360                 365  
 88 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp

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112	370	375	380	
113	Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg			
114	385	390	395	400
115	Pro Leu			
118	<210> SEQ ID NO: 3			
119	<211> LENGTH: 395			
120	<212> TYPE: DNA			
121	<213> ORGANISM: Homo sapien (human)			
123	<400> SEQUENCE: 3			
124	taagtcaagta gcataaaaaac atgagcaagt acatctaatac acatctgaga atactaaaat			60
125	ggatgtgtgg tttcatttct gcatttcatac tttagcagtaa atgtcaaaat gcatcatata			120
126	tgcattttgtg acttggaaactc ttctcgaaaga ggctgccgt aaacccgtcc cacacgcagc			180
127	ccacgggtgtc ccacacccag ccgttcctca ggcaggacac gaaggtaaag gtgaccggga			240
128	agaggttacac agcagggtcgc tgaggctgtat gttgaccagg aggaggttag tggagtgcg			300
129	gagcgcttggaa acttgttagta gaggacgagc accagcagggt tggatgtcg			360
130	ccaatggagc ccagcagcagc cgcaggccct cgtgc			395
132	<210> SEQ ID NO: 4			
133	<211> LENGTH: 27			
134	<212> TYPE: DNA			
135	<213> ORGANISM: Artificial Sequence ✓			
137	<220> FEATURE:			
138	<223> OTHER INFORMATION: Oligonucleotide ✓			
140	<400> SEQUENCE: 4			
141	cgggttaccat gtactcgaaaa aaccgca			27
143	<210> SEQ ID NO: 5			
144	<211> LENGTH: 30			
145	<212> TYPE: DNA			
146	<213> ORGANISM: Artificial Sequence ✓			
148	<220> FEATURE:			
149	<223> OTHER INFORMATION: Oligonucleotide ✓			
151	<400> SEQUENCE: 5			
152	gcgcggccgc acgggtatttc cagacacttc			
154	<210> SEQ ID NO: 6			30
155	<211> LENGTH: 30			
156	<212> TYPE: DNA			
157	<213> ORGANISM: Artificial Sequence ✓			
159	<220> FEATURE:			
160	<223> OTHER INFORMATION: Oligonucleotide ✓			
162	<400> SEQUENCE: 6			
163	gcgcggccgc cccattttc gttgccattc			
165	<210> SEQ ID NO: 7			30
166	<211> LENGTH: 22			
167	<212> TYPE: DNA			
168	<213> ORGANISM: Artificial Sequence ✓			
170	<220> FEATURE:			
171	<223> OTHER INFORMATION: Oligonucleotide ✓			
173	<400> SEQUENCE: 7			
174	caacaacctg ctgggtctcg tc			
176	<210> SEQ ID NO: 8			22

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177 <211> LENGTH: 18  
178 <212> TYPE: DNA  
179 <213> ORGANISM: Artificial Sequence  
181 <220> FEATURE:  
182 <223> OTHER INFORMATION: Oligonucleotide  
184 <400> SEQUENCE: 8  
185 gctggcgtc ggcaacaa 18  
187 <210> SEQ ID NO: 9  
188 <211> LENGTH: 20  
189 <212> TYPE: DNA  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: Oligonucleotide  
195 <400> SEQUENCE: 9  
196 caggcaggac acgaaggtaa 20  
198 <210> SEQ ID NO: 10  
199 <211> LENGTH: 22  
200 <212> TYPE: DNA  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: Oligonucleotide  
206 <400> SEQUENCE: 10  
207 ggtcgctgag gctgatgttgc ac 22  
209 <210> SEQ ID NO: 11  
210 <211> LENGTH: 20  
211 <212> TYPE: DNA  
212 <213> ORGANISM: Artificial Sequence  
214 <220> FEATURE:  
215 <223> OTHER INFORMATION: Oligonucleotide  
217 <400> SEQUENCE: 11  
218 ggggatgtgc tgcaaggcga 20  
220 <210> SEQ ID NO: 12  
221 <211> LENGTH: 22  
222 <212> TYPE: DNA  
223 <213> ORGANISM: Artificial Sequence  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Oligonucleotide  
228 <400> SEQUENCE: 12  
229 ccagggtttt cccagtacg ac 22  
231 <210> SEQ ID NO: 13  
232 <211> LENGTH: 25  
233 <212> TYPE: DNA  
234 <213> ORGANISM: Artificial Sequence  
236 <220> FEATURE:  
237 <223> OTHER INFORMATION: Oligonucleotide  
239 <400> SEQUENCE: 13  
240 cccaggcttt acactttatg cttcc 25  
242 <210> SEQ ID NO: 14  
243 <211> LENGTH: 25

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244 <212> TYPE: DNA  
 245 <213> ORGANISM: Artificial Sequence  
 247 <220> FEATURE:  
 248 <223> OTHER INFORMATION: Oligonucleotide  
 250 <400> SEQUENCE: 14  
 251 ttgtgtggaa ttgtgagcgg ataac  
 253 <210> SEQ ID NO: 15  
 254 <211> LENGTH: 348  
 255 <212> TYPE: PRT  
 256 <213> ORGANISM: Homo sapien (human)  
 258 <400> SEQUENCE: 15  
 259 Met Asn Gly Thr Glu Gly Pro Asn Phe Tyr Val Pro Phe Ser Asn Ala  
 260 1 5 10 15  
 261 Thr Gly Val Val Arg Ser Pro Phe Glu Tyr Pro Gln Tyr Tyr Leu Ala  
 262 20 25 30  
 263 Glu Pro Trp Gln Phe Ser Met Leu Ala Ala Tyr Met Phe Leu Leu Ile  
 264 35 40 45  
 265 Val Leu Gly Phe Pro Ile Asn Phe Leu Thr Leu Tyr Val Thr Val Gln  
 266 50 55 60  
 267 His Lys Lys Leu Arg Thr Pro Leu Asn Tyr Ile Leu Leu Asn Leu Ala  
 268 65 70 75 80  
 269 Val Ala Asp Leu Phe Met Val Leu Gly Gly Phe Thr Ser Thr Leu Tyr  
 270 85 90 95  
 271 Thr Ser Leu His Gly Tyr Phe Val Phe Gly Pro Thr Gly Cys Asn Leu  
 272 100 105 110  
 273 Glu Gly Phe Phe Ala Thr Leu Gly Gly Glu Ile Ala Leu Trp Ser Leu  
 274 115 120 125  
 275 Val Val Leu Ala Ile Glu Arg Tyr Val Val Val Cys Lys Pro Met Ser  
 276 130 135 140  
 277 Asn Phe Arg Phe Gly Glu Asn His Ala Ile Met Gly Val Ala Phe Thr  
 278 145 150 155 160  
 279 Trp Val Met Ala Leu Ala Cys Ala Ala Pro Pro Leu Ala Gly Trp Ser  
 280 165 170 175  
 281 Arg Tyr Ile Pro Glu Gly Leu Gln Cys Ser Cys Gly Ile Asp Tyr Tyr  
 282 180 185 190  
 283 Thr Leu Lys Pro Glu Val Asn Asn Glu Ser Phe Val Ile Tyr Met Phe  
 284 195 200 205  
 285 Val Val His Phe Thr Ile Pro Met Ile Ile Phe Phe Cys Tyr Gly  
 286 210 215 220  
 287 Gln Leu Val Phe Thr Val Lys Glu Ala Ala Gln Gln Glu Ser  
 288 225 230 235 240  
 289 Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val Ile Ile  
 290 245 250 255  
 291 Met Val Ile Ala Phe Leu Ile Cys Trp Val Pro Tyr Ala Ser Val Ala  
 292 260 265 270  
 293 Phe Tyr Ile Phe Thr His Gln Gly Ser Asn Phe Gly Pro Ile Phe Met  
 294 275 280 285  
 295 Thr Ile Pro Ala Phe Phe Ala Lys Ser Ala Ala Ile Tyr Asn Pro Val  
 296 290 295 300

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